Muhammad Tahoor Bin Rauf

Machine Learning Engineer

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SUMMARY

Machine Learning Engineer with hands-on experience in model development and deep learning, actively building expertise in AI engineering with a focus on Generative AI and autonomous agents. Passionate about developing intelligent systems that leverage LLMs, AI agents, and emerging AI technologies.

EXPERIENCE

CareCloud, Remote — Intern Artificial Intelligence and Data Science   **May 2025 - PRESENT**

Learning and contributing to machine learning model development, data analysis, and real-world healthcare tech solutions.

Space Technologies Application and Research Lab — AI and Data Science Intern   **Jun 2023 – Sept 2023**

I've had the opportunity to apply and enhance my skills in several key areas during this internship. Notably, I focused on computer vision and remote sensing techniques, crucial for analyzing and interpreting satellite imagery.

Air University, Islamabad — Machine Learning Intern   **Jul 2023 – Sept 2023**

Completed an enriching internship in the Department of Creative Technologies at Air University, where I honed my skills of Machine Learning from July to September 2023.

128 Technologies, Islamabad — Python Developer   **Jul 2023 – Aug 2023**

Created a management system for hospitals to keep track of their doctors' schedules and to provide appointments to patients relative to their emergencies. And gained hands-on experience in coding with python, problem-solving, and project management.

Air University, Islamabad — Research Assistant   **Jun 2023 – Jun 2024**

Research Assistant under Mr Adnan Aslam, Lecturer at Air University. We are working on Student personality and demographic factors that help them get good grades based on OCEAN 5 personality traits.

SKILLS

Machine Learning & AI: Machine Learning, Deep Learning, ANN / CNN, GANs, Natural Language Processing, Computer Vision, TensorFlow, Scikit-Learn, Supervised Learning, Unsupervised Learning, Tuning
Data Science & Analysis: Data Analysis, Data Preprocessing, Visualization on Power BI, pandas, NumPy, Feature Engineering, Model Evaluation, Matplotlib, Seaborn, Remote Sensing, Quantum GIS
Embedded Systems: Arduino Nano BLE Sense, Signal Processing (FFT), Real-Time Data Analysis, Computer Organization and Assembly Language
Programming & Development: Python Development, Rust, APIs, Front-end (HTML, CSS, Java), React, Flask, Database Systems (SQL)
Soft Skills: Problem-Solving and Critical Thinking, Team Collaboration and Leadership, Adaptability and Eagerness to Learn New Technologies, Time Management and Multi-tasking

PROJECTS

FYP – AI Teaching Assistant — *AI-powered Teaching Assistant for Automated Educator Support (Llama 3.2 3B)*

Floor Plans Images Generation — *GANs based Floor plans image generation using text prompts.*

Auto-Complete: — *A small scaled NLP based generative model to auto complete sentences.*

USDA prompt matching — *USDA Food descriptions matching by using Fuzzy-Matching and TF-IDF*

Text Analysis of Job Postings: — *Job Market Analysis using NLP on Indeed Job Postings dataset*

AI-driven Consumer Behavior Analysis: — *AI-based Marketing for Personalized Promotions in real time.*

EDUCATION

Air University, Islamabad — *BSc. Artificial Intelligence* — CGPA: 3.65   **Sep 2020 - Jul 2025**

CERTIFICATIONS AND AWARDS

Certified Python Programmer by Python Career Trainers
Machine learning Specialization by DeepLearning.AI, Coursera
Google Coding Competition, Top 1000 globally.
CS50 Puzzle Certificate Harvard CS50
Certificate of Achievement NaSCon 2023
High Honors for multiple semesters for SGPA and CGPA.
Hackathon Winner Air-University 2021